



#13  
3/1/02

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/424,686  
Source: 1652  
Date Processed by STIC: 2/14/2002

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

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Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
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U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
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Revised 01/29/2002

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1652

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/424,686

DATE: 02/14/2002

TIME: 15:18:45

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF3\02142002\I424686.raw

Does Not Comply  
Corrected Diskette Needed

4 <110> APPLICANT: Hagen, Gustav  
5 Siegmund, Hans-Ulrich  
6 Weichel, Walter  
7 Wick, Maresa  
8 Zubov, Dmitry  
10 <120> TITLE OF INVENTION: Human Catalytic Telomerase Sub-Unit and its Diagnostic and  
Therapeutic  
11 Use  
13 <130> FILE REFERENCE: Bayer 10,203  
15 <140> CURRENT APPLICATION NUMBER: US 09/424,686  
17 <141> CURRENT FILING DATE: 1999-11-29  
19 <150> PRIOR APPLICATION NUMBER: PCT/EP98/03468  
21 <151> PRIOR FILING DATE: 1998-06-09  
23 <160> NUMBER OF SEQ ID NOS: 7  
25 <170> SOFTWARE: Microsoft Word

## ERRORED SEQUENCES

171 <210> SEQ ID NO: 2  
172 <211> LENGTH: 1132  
E--> 173 <212> TYPE: amino acid  
174 <213> ORGANISM: Homo sapiens  
176 <400> SEQUENCE: 2

177	Met	Pro	Arg	Ala	Pro	Arg	Cys	Arg	Ala	Val	Arg	Ser	Leu	Leu	Arg	Ser
178	1				5					10					15	
180	His	Tyr	Arg	Glu	Val	Leu	Pro	Leu	Ala	Thr	Phe	Val	Arg	Arg	Leu	Gly
181				20					25					30		
183	Pro	Gln	Gly	Trp	Arg	Leu	Val	Gln	Arg	Gly	Asp	Pro	Ala	Ala	Phe	Arg
184			35					40					45			
186	Ala	Leu	Val	Ala	Gln	Cys	Leu	Val	Cys	Val	Pro	Trp	Asp	Ala	Arg	Pro
187		50				55				60						
189	Pro	Pro	Ala	Ala	Pro	Ser	Phe	Arg	Gln	Val	Ser	Cys	Leu	Lys	Glu	Leu
190	65				70				75					80		
192	Val	Ala	Arg	Val	Leu	Gln	Arg	Leu	Cys	Glu	Arg	Gly	Ala	Lys	Asn	Val
193				85				90						95		
195	Leu	Ala	Phe	Gly	Phe	Ala	Leu	Leu	Asp	Gly	Ala	Arg	Gly	Gly	Pro	Pro
196			100					105					110			
198	Glu	Ala	Phe	Thr	Thr	Ser	Val	Arg	Ser	Tyr	Leu	Pro	Asn	Thr	Val	Thr
199			115				120					125				
201	Asp	Ala	Leu	Arg	Gly	Ser	Gly	Ala	Trp	Gly	Leu	Leu	Leu	Arg	Arg	Val
202			130				135					140				
204	Gly	Asp	Asp	Val	Leu	Val	His	Leu	Leu	Ala	Arg	Cys	Ala	Leu	Phe	Val
205			145			150				155				160		

invalid response must be  
PRT for proteins.

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Input Set : A:\pto.vsk.txt

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207   Leu Val Ala Pro Ser Cys Ala Tyr Gln Val Cys Gly Pro Pro Leu Tyr
208               165                      170                      175
210   Gln Leu Gly Ala Ala Thr Gln Ala Arg Pro Pro Pro His Ala Ser Gly
211               180                      185                      190
213   Pro Arg Arg Arg Leu Gly Cys Glu Arg Ala Trp Asn His Ser Val Arg
214               195                      200                      205
216   Glu Ala Gly Val Pro Leu Gly Leu Pro Ala Pro Gly Ala Arg Arg Arg
217               210                      215                      220
219   Gly Gly Ser Ala Ser Arg Ser Leu Pro Leu Pro Lys Arg Pro Arg Arg
220   225                230                235                240
222   Gly Ala Ala Pro Glu Pro Glu Arg Thr Pro Val Gly Gln Gly Ser Trp
223               245                      250                      255
225   Ala His Pro Gly Arg Thr Arg Gly Pro Ser Asp Arg Gly Phe Cys Val
226               260                      265                      270
228   Val Ser Pro Ala Arg Pro Ala Glu Glu Ala Thr Ser Leu Glu Gly Ala
229               275                      280                      285
231   Leu Ser Gly Thr Arg His Ser His Pro Ser Val Gly Arg Gln His His
232   290                295                300
234   Ala Gly Pro Pro Ser Thr Ser Arg Pro Pro Arg Pro Trp Asp Thr Pro
235   305                310                315                320
237   Cys Pro Pro Val Tyr Ala Glu Thr Lys His Phe Leu Tyr Ser Ser Gly
238               325                      330                      335
240   Asp Lys Glu Gln Leu Arg Pro Ser Phe Leu Leu Ser Ser Leu Arg Pro
241               340                      345                      350
243   Ser Leu Thr Gly Ala Arg Arg Leu Val Glu Thr Ile Phe Leu Gly Ser
244               355                      360                      365
246   Arg Pro Trp Met Pro Gly Thr Pro Arg Arg Leu Pro Arg Leu Pro Gln
247   370                375                380
249   Arg Tyr Trp Gln Met Arg Pro Leu Phe Leu Glu Leu Leu Gly Asn His
250   385                390                395                400
252   Ala Gln Cys Pro Tyr Gly Val Leu Leu Lys Thr His Cys Pro Leu Arg
253               405                      410                      415
255   Ala Ala Val Thr Pro Ala Ala Gly Val Cys Ala Arg Glu Lys Pro Gln
256               420                      425                      430
258   Gly Ser Val Ala Ala Pro Glu Glu Glu Asp Thr Asp Pro Arg Arg Leu
259               435                      440                      445
261   Val Gln Leu Leu Arg Gln His Ser Ser Pro Trp Gln Val Tyr Gly Phe
262               450                      455                      460
264   Val Arg Ala Cys Leu Arg Arg Leu Val Pro Pro Gly Leu Trp Gly Ser
265   465                470                475                480
267   Arg His Asn Glu Arg Arg Phe Leu Arg Asn Thr Lys Lys Phe Ile Ser
268               485                      490                      495
270   Leu Gly Lys His Ala Lys Leu Ser Leu Gln Glu Leu Thr Trp Lys Met
271               500                      505                      510
273   Ser Val Arg Asp Cys Ala Trp Leu Arg Arg Ser Pro Gly Val Gly Cys
274               515                      520                      525
276   Val Pro Ala Ala Glu His Arg Leu Arg Glu Glu Ile Leu Ala Lys Phe
277   530                535                540
279   Leu His Trp Leu Met Ser Val Tyr Val Val Glu Leu Leu Arg Ser Phe

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280	545	550	555	560
282	Phe Tyr Val Thr Glu Thr Thr Phe Gln Lys Asn Arg Leu Phe Phe Tyr			
283		565	570	575
285	Arg Lys Ser Val Trp Ser Lys Leu Gln Ser Ile Gly Ile Arg Gln His			
286		580	585	590
288	Leu Lys Arg Val Gln Leu Arg Glu Leu Ser Glu Ala Glu Val Arg Gln			
289		595	600	605
291	His Arg Glu Ala Arg Pro Ala Leu Leu Thr Ser Arg Leu Arg Phe Ile			
292		610	615	620
294	Pro Lys Pro Asp Gly Leu Arg Pro Ile Val Asn Met Asp Tyr Val Val			
295		625	630	635
297	Gly Ala Arg Thr Phe Arg Arg Glu Lys Arg Ala Glu Arg Leu Thr Ser			
298		645	650	655
300	Arg Val Lys Ala Leu Phe Ser Val Leu Asn Tyr Glu Arg Ala Arg Arg			
301		660	665	670
303	Pro Gly Leu Leu Gly Ala Ser Val Leu Gly Leu Asp Asp Ile His Arg			
304		675	680	685
306	Ala Trp Arg Thr Phe Val Leu Arg Val Arg Ala Gln Asp Pro Pro Pro			
307		690	695	700
309	Glu Leu Tyr Phe Val Lys Val Asp Val Thr Gly Ala Tyr Asp Thr Ile			
310		705	710	715
312	Pro Gln Asp Arg Leu Thr Glu Val Ile Ala Ser Ile Ile Lys Pro Gln			
313		725	730	735
315	Asn Thr Tyr Cys Val Arg Arg Tyr Ala Val Val Gln Lys Ala Ala His			
316		740	745	750
318	Gly His Val Arg Lys Ala Phe Lys Ser His Val Ser Thr Leu Thr Asp			
319		755	760	765
321	Leu Gln Pro Tyr Met Arg Gln Phe Val Ala His Leu Gln Glu Thr Ser			
322		770	775	780
324	Pro Leu Arg Asp Ala Val Val Ile Glu Gln Ser Ser Ser Leu Asn Glu			
325		785	790	795
327	Ala Ser Ser Gly Leu Phe Asp Val Phe Leu Arg Phe Met Cys His His			
328		805	810	815
330	Ala Val Arg Ile Arg Gly Lys Ser Tyr Val Gln Cys Gln Gly Ile Pro			
331		820	825	830
333	Gln Gly Ser Ile Leu Ser Thr Leu Leu Cys Ser Leu Cys Tyr Gly Asp			
334		835	840	845
336	Met Glu Asn Lys Leu Phe Ala Gly Ile Arg Arg Asp Gly Leu Leu Leu			
337		850	855	860
339	Arg Leu Val Asp Asp Phe Leu Leu Val Thr Pro His Leu Thr His Ala			
340		865	870	875
342	Lys Thr Phe Leu Arg Thr Leu Val Arg Gly Val Pro Glu Tyr Gly Cys			
343		885	890	895
345	Val Val Asn Leu Arg Lys Thr Val Val Asn Phe Pro Val Glu Asp Glu			
346		900	905	910
348	Ala Leu Gly Gly Thr Ala Phe Val Gln Met Pro Ala His Gly Leu Phe			
349		915	920	925
351	Pro Trp Cys Gly Leu Leu Leu Asp Thr Arg Thr Leu Glu Val Gln Ser			
352		930	935	940

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354   Asp Tyr Ser Ser Tyr Ala Arg Thr Ser Ile Arg Ala Ser Leu Thr Phe
355   945                               950                               955                               960
357   Asn Arg Gly Phe Lys Ala Gly Arg Asn Met Arg Arg Lys Leu Phe Gly
358                               965                               970                               975
360   Val Leu Arg Leu Lys Cys His Ser Leu Phe Leu Asp Leu Gln Val Asn
361                               980                               985                               990
363   Ser Leu Gln Thr Val Cys Thr Asn Ile Tyr Lys Ile Leu Leu Leu Gln
364                               995                               1000                               1005
366   Ala Tyr Arg Phe His Ala Cys Val Leu Gln Leu Pro Phe His Gln Gln
367   1010                               1015                               1020
369   Val Trp Lys Asn Pro Thr Phe Phe Leu Arg Val Ile Ser Asp Thr Ala
370   1025                               1030                               1035                               1040
372   Ser Leu Cys Tyr Ser Ile Leu Lys Ala Lys Asn Ala Gly Met Ser Leu
373                               1045                               1050                               1055
375   Gly Ala Lys Gly Ala Ala Gly Pro Leu Pro Ser Glu Ala Val Gln Trp
376                               1060                               1065                               1070
378   Leu Cys His Gln Ala Phe Leu Leu Lys Leu Thr Arg His Arg Val Thr
379                               1075                               1080                               1085
381   Tyr Val Pro Leu Leu Gly Ser Leu Arg Thr Ala Gln Thr Gln Leu Ser
382   1090                               1095                               1100
384   Arg Lys Leu Pro Gly Thr Thr Leu Thr Ala Leu Glu Ala Ala Ala Asn
385   1105                               1110                               1115                               1120
387   Pro Ala Leu Pro Ser Asp Phe Lys Thr Ile Leu Asp
388                               1125                               1130

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/424,686

DATE: 02/14/2002

TIME: 15:18:46

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF3\02142002\I424686.raw

L:173 M:310 E: (3) Wrong or Missing Sequence Type, TYPE: